



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Masaru KITSUREGAWA et al.

Serial No.: 10/628,516

Filed: July 29, 2003

For: DISASTER RECOVERY PROCESSING METHOD AND APPARATUS
AND STORAGE UNIT FOR THE SAME

Group: 2161

Examiner: F. Coby

**INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §1.97 & 1.98**

MS Amendment

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

November 28, 2005

Sir:

In the matter of the above-identified application, applicants are submitting herewith copies of the documents listed in the attached form equivalent to Form PTO-1449 for the Examiner's consideration. The Examiner is informed that copy of the U.S. Patents and Application Publications are not being submitted.

This information disclosure statement is being submitted before the mailing date of either a final action or a notice of allowance and is accompanied by the fee of \$180.00 set forth in 37 CFR §1.17(p).

Each of the documents listed on the attached form equivalent to Form PTO-1449 is in the English language.

11/29/2005 HALI11 00000078 10628516

01 FC:1806

180.00 DP

It is respectfully requested that this information disclosure statement be considered by the Examiner.

Please charge any shortage in the fees due in connection with the filing of this paper, including extension of time fees, to the deposit account of MATTINGLY, STANGER, MALUR & BRUNDIDGE, P.C., Deposit Account No. 50-1417 (500.42993X00) please credit any excess fees to such deposit account.

Respectfully submitted,



Carl I. Brundidge
Registration No. 29,621
MATTINGLY, STANGER, MALUR & BRUNDIDGE, P.C.

CIB/jdc
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FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)	ATTY. DOCKET NO.	SERIAL NO.
	500.42993X00	10/628,516
	APPLICANT M. KITSUREGAWA, et al	
	FILING DATE July 29, 2003	GROUP 2161

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	6 7 3 2 1 2 4	5/04	Koseki et al			
2 0 0 4	0 0 9 8 4 2 5	5/04	Wiss et al			
2 0 0 4	0 1 0 7 3 8 1	6/04	Bomfim et al			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT	
													YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	A. Bhide, "An Efficient Scheme for Providing High Availability", IBM TJ Watson Research Center, pp. 236-245.

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



FORM PTO-1449 U.S. Department of Commerce
Patent and Trademark Office

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use several sheets if necessary)

APPLICANT

M. KITSUREGAWA, et al

FILING DATE

July 29, 2003

GROUP

2161

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	6,748,502	6-2004	WATANABE et al.			
	2003/0074600 A1	04-2003	TAMATSU			
	2002/0133507 A1	09-2002	HOLENSTEIN et al.			
	2004/0133591 A1	07-2004	HOLENSTEIN et al.			
	2002/0095547 A1	07-2002	WATANABE et al.			
	4,821,172	04-1989	KANEKO et al.			
	6,502,205	12-2002	YANAI et al.			
	6,643,795	11-2003	SICOLA et al.			

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT
					YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Rahm, Performance Evaluation of Extended Storage Architectures for Transaction Processing, University of Kaiserslautern, Germany.
	Veritas Volume Replicator, Enterprise-Class Disaster Recovery for Mission-Critical Environments, 1992.
	R. VanNatta, "Crash Recovery" Database Management System, 2 nd Edition, pp. 1-26.

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	4,751,702	6/98	Beier, et al			
	5,758,355	5/98	Buchanan			
	6,173,292	1/01	Barber, et al			
	5,640,561	6/97	Satoh, et al			

FOREIGN PATENT DOCUMENTS

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						YES	NO

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	6,466,951	10/02	Birkler, et al			
	6,850,958	2/05	Wakabayashi			
	2002/0103815	8/02	Duvillier, et al			
	2002/0107878	8/02	Tsuchida, et al			

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